

4-33624A (5032-W001).ST25.txt
SEQUENCE LISTING

<110> Genova Ltd.
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Bougueleret, Lydie
Cusin, Isabelle
Mahe, Eve
Niknejad, Anne
Reffas, Samia

<120> SECRETED POLYPEPTIDE SPECIES ASSOCIATED WITH CARDIOVASCULAR DISORDERS

<130> 4-33624A/GEP (5032-W001)

<150> US 60/461,558

<151> 2003-04-08

<150> US 60/484,140

<151> 2003-06-30

<150> US 60/461,623

<151> 2003-04-08

<150> US 60/471,479

<151> 2003-05-16

<150> US 60/474,863

<151> 2003-05-30

<160> 146

<170> PatentIn version 3.1

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Ala Pro Gly Pro Arg Gly Ile Ile Ile Asn Leu Glu Asn Gly Glu Leu
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Cys Met Asn Ser Ala Gln Cys Lys Ser Asn Cys Cys Gln His Ser Ser
20 25 30

Ala Leu Gly Leu Ala Arg Cys Thr Ser Met Ala Ser Glu Asn Ser Glu
35 40 45

Cys Ser Val Lys Thr Leu Tyr Gly Ile Tyr Tyr Lys Cys Pro Cys Glu
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Arg Gly Leu Thr Cys Glu Gly Asp Lys Thr Ile Val Gly Ser Ile Thr
65 70 75 80

Asn Thr Asn Phe Gly Ile Cys His Asp Ala Gly Arg Ser Lys Gln
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4-33624A (5032-W001).ST25.txt

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Gln Cys Lys Ser Asn Cys Cys Gln His Ser Ser Ala Leu Gly Leu Ala
 20 25 30

Arg Cys Thr Ser Met Ala Ser Glu Asn Ser Glu Cys Ser Val Lys Thr
 35 40 45

Leu Tyr Gly Ile Tyr Tyr Lys Cys Pro Cys Glu Arg Gly Leu Thr Cys
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Glu Gly Asp Lys Thr Ile Val Gly Ser Ile Thr Asn Thr Asn Phe Gly
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Ile Cys His Asp Ala Gly Arg Ser Lys Gln
 85 90

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Ser Asn Cys Cys Gln His Ser Ser Ala Leu Gly Leu Ala Arg
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Ala Gly Arg

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4-33624A (5032-W001).ST25.txt

<213> Homo sapiens

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Met Val Pro Lys Leu Phe Thr Ser Gln Ile Cys Leu Leu Leu Leu Leu
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Gly Leu Leu Ala Val Glu Gly Ser Leu His Val Lys Pro Pro Gln Phe
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Thr Trp Ala Gln Trp Phe Glu Thr Gln His Ile Asn Met Thr Ser Gln
 35 40 45

Gln Cys Thr Asn Ala Met Gln Val Ile Asn Asn Tyr Gln Arg Arg Cys
 50 55 60

Lys Asn Gln Asn Thr Phe Leu Leu Thr Thr Phe Ala Asn Val Val Asn
 65 70 75 80

Val Cys Gly Asn Pro Asn Met Thr Cys Pro Ser Asn Lys Thr Arg Lys
 85 90 95

Asn Cys His His Ser Gly Ser Gln Val Pro Leu Ile His Cys Asn Leu
 100 105 110

Thr Thr Pro Ser Pro Gln Asn Ile Ser Asn Cys Arg Tyr Ala Gln Thr
 115 120 125

Pro Ala Asn Met Phe Tyr Ile Val Ala Cys Asp Asn Arg Asp Gln Arg
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Arg Asp Pro Pro Gln Tyr Pro Val Val Pro Val His Leu Asp Arg Ile
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Ile

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Asn Met Thr Ser Gln Gln Cys Thr Asn Ala Met Gln Val Ile Asn Asn
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Tyr Gln Arg Arg Cys Lys Asn Gln Asn Thr Phe Leu Leu Thr Thr Phe
 35 40 45

Ala Asn Val Val Asn Val Cys Gly Asn Pro Asn Met Thr Cys Pro Ser

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55 60

Asn Lys Thr Arg Lys Asn Cys His His Ser Gly Ser Gln Val Pro Leu
65 70 75 80

Ile His Cys Asn Leu Thr Thr Pro Ser Pro Gln Asn Ile Ser Asn Cys
85 90 95

Arg Tyr Ala Gln Thr Pro Ala Asn Met Phe Tyr Ile Val Ala Cys Asp
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Met Arg Phe Leu Ala Ala Thr Phe Leu Leu Leu Ala Leu Ser Thr Ala

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1 5 10 15
 Ala Gln Ala Glu Pro Val Gln Phe Lys Asp Cys Gly Ser Val Asp Gly
 20 25 30
 Val Ile Lys Glu Val Asn Val Ser Pro Cys Pro Thr Gln Pro Cys Gln
 35 40 45
 Leu Ser Lys Gly Gln Ser Tyr Ser Val Asn Val Thr Phe Thr Ser Asn
 50 55 60
 Ile Gln Ser Lys Ser Ser Lys Ala Val Val His Gly Ile Leu Met Gly
 65 70 75 80
 Val Pro Val Pro Phe Pro Ile Pro Glu Pro Asp Gly Cys Lys Ser Gly
 85 90 95
 Ile Asn Cys Pro Ile Gln Lys Asp Lys Thr Tyr Ser Tyr Leu Asn Lys
 100 105 110
 Leu Pro Val Lys Ser Glu Tyr Pro Ser Ile Lys Leu Val Val Glu Trp
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 Gln Leu Gln Asp Asp Lys Asn Gln Ser Leu Phe Cys Trp Glu Ile Pro
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 Val Gln Ile Val Ser His Leu
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 Glu Val Asn Val Ser Pro Cys Pro Thr Gln Pro Cys Gln Leu Ser Lys
 20 25 30
 Gly Gln Ser Tyr Ser Val Asn Val Thr Phe Thr Ser Asn Ile Gln Ser
 35 40 45
 Lys Ser Ser Lys Ala Val Val His Gly Ile Leu Met Gly Val Pro Val
 50 55 60
 Pro Phe Pro Ile Pro Glu Pro Asp Gly Cys Lys Ser Gly Ile Asn Cys
 65 70 75 80
 Pro Ile Gln Lys Asp Lys Thr Tyr Ser Tyr Leu Asn Lys Leu Pro Val
 85 90 95

4-33624A (5032-W001).ST25.txt

Lys Ser Glu Tyr Pro Ser Ile Lys Leu Val Val Glu Trp Gln Leu Gln
 100 105 110

Asp Asp Lys Asn Gln Ser Leu Phe Cys Trp Glu Ile Pro Val Gln Ile
 115 120 125

Val Ser His Leu
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Pro Glu Pro Asp Gly Cys Lys
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Ser Gly Ile Asn Cys Pro Ile Gln Lys
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Met Arg Thr Leu Ala Ile Leu Ala Ala Ile Leu Leu Val Ala Leu Gln
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Ala Gln Ala Glu Pro Leu Gln Ala Arg Ala Asp Glu Val Ala Ala Ala
 20 25 30

Pro Glu Gln Ile Ala Ala Asp Ile Pro Glu Val Val Val Ser Leu Ala
 35 40 45

Trp Asp Glu Ser Leu Ala Pro Lys His Pro Gly Ser Arg Lys Asn Met
 50 55 60

Ala Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr
 65 70 75 80

Gly Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
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85

90

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Ile Ala Ala Asp Ile Pro Glu Val Val Val Ser Leu Ala Trp Asp Glu
 20 25 30

Ser Leu Ala Pro Lys His Pro Gly Ser Arg Lys Asn Met Ala Cys Tyr
 35 40 45

Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr Gly Thr Cys
 50 55 60

Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
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Glu Val Val Val Ser Leu Ala Trp Asp Glu Ser Leu Ala Pro Lys
 20 25 30

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1

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Met Glu His Lys Glu Val Val Leu Leu Leu Leu Phe Leu Lys Ser
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Gly Gln Gly Glu Pro Leu Asp Asp Tyr Val Asn Thr Gln Gly Pro Ser
 20 25 30

Leu Phe Ser Val Thr Lys Lys Gln Leu Gly Ala Gly Ser Arg Glu Glu
 35 40 45

Cys Ala Ala Lys Cys Glu Glu Asp Lys Glu Phe Thr Cys Arg Ala Phe
 50 55 60

4-33624A (5032-W001).ST25.txt

Gln Tyr His Ser Lys Glu Gln Gln Cys Val Ile Met Ala Glu Asn Arg
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Lys Ser Ser Ile Ile Ile Arg Met Arg Asp Ala Val Leu Phe Glu Lys
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 20 25 30

Lys Cys Glu Glu Asp Lys Glu Phe Thr Cys Arg Ala Phe Gln Tyr His
 35 40 45

Ser Lys Glu Gln Gln Cys Val Ile Met Ala Glu Asn Arg Lys Ser Ser
 50 55 60

Ile Ile Ile Arg Met Arg Asp Ala Val Leu Phe Glu Lys
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Val Thr Lys

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Cys Glu Glu Asp Lys Glu Phe Thr Cys Arg
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Ala Phe Gln Tyr His Ser Lys
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Cys Leu Asp Pro Val Asp Thr Pro Asn Pro Thr Arg
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Tyr Lys Lys Pro Glu Cys Gln Ser Asp Trp Gln Cys Pro Gly Lys
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Glu Ser Leu Ser Gly Val Cys Glu Ile Ser Gly Arg
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Asp Ala Leu Ser Ala Ser Val Val Lys
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4-33624A (5032-W001).ST25.txt

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Asp Tyr Tyr Val Ser Thr Ala Val Cys Arg
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Phe Pro Val Tyr Asp Tyr Asp Pro Ser Ser Leu Arg
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Val Asn Ser Gln Ser Leu Ser Pro Tyr Leu Phe Arg
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Val Ser Ala Gln Gln Val Gln Gly Val His Ala Arg
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Gly Val Ser Leu Arg Pro Ile Gly Ala Ser Cys Arg
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4-33624A (5032-W001).ST25.txt

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Glu Asn Glu Leu Thr Tyr Tyr Cys Cys Lys
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Phe Glu His Cys Asn Phe Asn Asp Val Thr Thr Arg
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Leu Gln Cys Tyr Asn Cys Pro Asn Pro Thr Ala Asp Cys Lys
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Leu Arg Glu Asn Glu Leu Thr Tyr Tyr Cys Cys Lys
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4-33624A (5032-W001).ST25.txt

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Thr Ala Val Asn Cys Ser Ser Asp Phe Asp Ala Cys Leu Ile Thr Lys
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Cys Leu Thr Thr Asp Glu Tyr Asp Gly His Ser Thr Tyr Pro Ser His
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Gln Tyr Gln

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His Asp Leu Gly His Phe Met Leu Arg
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4-33624A (5032-W001).ST25.txt

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Ala Tyr Thr Val Thr Leu Asp Gly Arg
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Leu Tyr Ser Val His Arg Pro Val Lys
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Ser Asn Tyr Phe Arg Leu Pro Pro Cys Glu Asn Val Asp Leu Gln Arg
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Pro Asn Gly Leu
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4-33624A (5032-W001).ST25.txt

Ala Gly Pro Ala Gln Thr Leu Ile Arg Pro Gln Asp Met Lys
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Met Ser Ser Ser Tyr Pro Thr Gly Leu Ala Asp Val Lys
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Met Ser Ser Ser Tyr Pro Thr Gly Leu Ala Asp Val Lys Ala Gly Pro
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Ala Gln Thr Leu Ile Arg Pro Gln Asp Met Lys
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Glu Asp Pro Thr Val Ser Ala Leu Leu Thr Ser Glu Lys
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Val Pro Ser Leu Val Gly Ser Phe Ile Arg
1 5 10

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Cys Leu His Pro Cys Val Ile Ser Arg
1 5

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4-33624A (5032-W001).ST25.txt

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Glu Ala Thr Phe Cys Asp Phe Pro Lys
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Glu Ile Met Glu Asn Tyr Asn Ile Ala Leu Arg
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Gly Trp Ser Thr Pro Pro Lys
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Ile Asn His Gly Ile Leu Tyr Asp Glu Glu Lys
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Ile Thr Cys Thr Glu Glu Gly Trp Ser Pro Thr Pro Lys
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Leu Glu Tyr Pro Thr Cys Ala Lys
1 5

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4-33624A (5032-W001).ST25.txt

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Ser Phe Trp Thr Arg
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Pro Lys

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4-33624A (5032-W001).ST25.txt

Ile Leu Ser Arg
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Thr Gly Glu Ser Ala Glu Phe Val Cys Lys Arg
1 5 10

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Thr Thr Cys Trp Asp Gly Lys Leu Glu Tyr Pro Thr Cys Ala Lys
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Tyr Lys Pro Phe Ser Gln Val Pro Thr Gly Glu Val Phe Tyr Tyr Ser
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Cys Glu Tyr Asn Phe Val Ser Pro Ser Lys
20 25

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Ala Phe Thr Glu Cys Cys Val Val Ala Ser Gln Leu Arg
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4-33624A (5032-W001).ST25.txt

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Cys Cys Tyr Asp Gly Ala Cys Val Asn Asn Asp Glu Thr Cys Glu Gln
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Arg

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Asp Val Val Gln Ile Thr Cys Leu Asp Gly Phe Glu Val Val Glu Gly
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Arg

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Glu Asp Thr Pro Asn Ser Val Trp Glu Pro Ala Lys
1 5 10

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Gly Asp Ser Gly Gly Ala Phe Ala Val Gln Asp Pro Asn Asp Lys
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Gln Phe Gly Pro Tyr Cys Gly His Gly Phe Pro Gly Pro Leu Asn Ile
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Glu Thr Lys

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4-33624A (5032-W001).ST25.txt

Ser Asn Ala Leu Asp Ile Ile Phe Gln Thr Asp Leu Thr Gly Gln Lys
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Ser Ser Asn Asn Pro His Ser Pro Ile Val Glu Glu Phe Gln Val Pro
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Tyr Asn Lys

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Thr Asn Phe Asp Asn Asp Ile Ala Leu Val Arg
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Gln Leu Gln Glu Val Lys
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Cys Phe Leu Gly Cys Glu Leu Pro Pro Glu Gly Ser Arg
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Glu Phe Leu Glu Asp Thr Cys Val Gln Tyr Val Gln Lys
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Thr Gln Ser Gly Leu Gln Ser Tyr Leu Leu Gln Phe His Gly Leu Val
1 5 10 15

Arg

4-33624A (5032-W001).ST25.txt

<210> 97
<211> 11
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<400> 97

Ala Leu Asn Ser Ile Ile Asp Val Tyr His Lys
1 5 10

<210> 98
<211> 7
<212> PRT
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<400> 98

Gly Ala Asp Val Trp Phe Lys
1 5

<210> 99
<211> 8
<212> PRT
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<400> 99

Gly Asn Phe His Ala Val Tyr Arg
1 5

<210> 100
<211> 11
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<400> 100

Leu Leu Glu Thr Glu Cys Pro Gln Tyr Ile Arg
1 5 10

<210> 101
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<400> 101

Met Leu Thr Glu Leu Glu Lys
1 5

<210> 102
<211> 8
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<400> 102

Ala Ile Asp Gly Ile Asn Gln Arg
1 5

4-33624A (5032-W001).ST25.txt

<210> 103
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<400> 103

Cys Met Gly Thr Val Thr Leu Asn Gln Ala Arg
1 5 10

<210> 104
<211> 9
<212> PRT
<213> Homo sapiens

<400> 104

Phe Ala Leu Leu Gly Asp Phe Phe Arg
1 5

<210> 105
<211> 10
<212> PRT
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<400> 105

Phe Ala Leu Leu Gly Asp Phe Phe Arg Lys
1 5 10

<210> 106
<211> 9
<212> PRT
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<400> 106

Gly Ser Phe Asp Ile Ser Cys Asp Lys
1 5

<210> 107
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<212> PRT
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<400> 107

Gly Ser Phe Asp Ile Ser Cys Asp Lys Asp Asn Lys
1 5 10

<210> 108
<211> 6
<212> PRT
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<400> 108

Ile Lys Asp Phe Leu Arg
1 5

<210> 109
<211> 11

4-33624A (5032-W001).ST25.txt

<212> PRT
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<400> 109

Gln Val Leu Ser Tyr Lys Glu Ala Val Leu Arg
1 5 10

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<400> 110

Thr Thr Gln Gln Ser Pro Glu Asp Cys Asp Phe Lys
1 5 10

<210> 111
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<400> 111

Thr Thr Gln Gln Ser Pro Glu Asp Cys Asp Phe Lys Lys
1 5 10

<210> 112
<211> 6
<212> PRT
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<400> 112

Cys Asp Tyr Trp Ile Arg
1 5

<210> 113
<211> 7
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<400> 113

Glu Leu Thr Ser Glu Leu Lys
1 5

<210> 114
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<212> PRT
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<400> 114

Met Tyr Ala Thr Ile Tyr Glu Leu Lys
1 5

<210> 115
<211> 21
<212> PRT
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4-33624A (5032-WO01).ST25.txt

<400> 115

Ser Leu Gly Leu Pro Glu Asn His Ile Val Phe Pro Val Pro Ile Asp
 1 5 10 15

Gln Cys Ile Asp Gly
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<210> 116

<211> 11

<212> PRT

<213> Homo sapiens

<400> 116

Ser Tyr Pro Gly Leu Thr Ser Tyr Leu Val Arg
 1 5 10

<210> 117

<211> 17

<212> PRT

<213> Homo sapiens

<400> 117

Thr Phe Val Pro Gly Cys Gln Pro Gly Glu Phe Thr Leu Gly Asn Ile
 1 5 10 15

Lys

<210> 118

<211> 15

<212> PRT

<213> Homo sapiens

<400> 118

Val Pro Leu Gln Gln Asn Phe Gln Asp Asn Gln Phe Gln Gly Lys
 1 5 10 15

<210> 119

<211> 15

<212> PRT

<213> Homo sapiens

<400> 119

Val Val Ser Thr Asn Tyr Asn Gln His Ala Met Val Phe Phe Lys
 1 5 10 15

<210> 120

<211> 13

<212> PRT

<213> Homo sapiens

<400> 120

Trp Tyr Val Val Gly Leu Ala Gly Asn Ala Ile Leu Arg
 1 5 10

4-33624A (5032-W001).ST25.txt

<210> 121
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<400> 121

Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg
1 5 10

<210> 122
<211> 14
<212> PRT
<213> Homo sapiens

<400> 122

Asp Asp Gln Leu Val Val Leu Phe Pro Val Gln Lys Pro Lys
1 5 10

<210> 123
<211> 8
<212> PRT
<213> Homo sapiens

<400> 123

Gly Pro Ile Leu Pro Gly Thr Lys
1 5

<210> 124
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<400> 124

His Trp Pro Ser Glu Gln Asp Pro Glu Lys
1 5 10

<210> 125
<211> 15
<212> PRT
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<400> 125

His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
1 5 10 15

<210> 126
<211> 9
<212> PRT
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<400> 126

Leu Leu Thr Thr Glu Glu Lys Pro Arg
1 5

4-33624A (5032-WO01).ST25.txt

<210> 127
 <211> 13
 <212> PRT
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<400> 127

Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln Gly Arg
 1 5 10

<210> 128
 <211> 24
 <212> PRT
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<400> 128

Leu Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp
 1 5 10 15

Gln Asp His Ile Tyr His Pro Gln
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<210> 129
 <211> 26
 <212> PRT
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<400> 129

Val Leu Ser Pro Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro
 1 5 10 15

Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg
 20 25

<210> 130
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 130

Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
 1 5 10 15

Val Gln Lys Pro Lys
 20

<210> 131
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 131

Glu Val Met Pro Ser Ile Gln Ser Leu Asp Ala Leu Val Lys
 1 5 10

<210> 132

4-33624A (5032-W001).ST25.txt

<211> 10
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Gly Leu Met Tyr Ser Val Asn Pro Asn Lys
 1 5 10

<210> 133
 <211> 11
 <212> PRT
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 <400> 133

Asn Ala Asn Thr Phe Ile Ser Pro Gln Gln Arg
 1 5 10

<210> 134
 <211> 19
 <212> PRT
 <213> Homo sapiens
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Tyr Glu Ser His Glu Ser Met Glu Ser Tyr Glu Leu Asn Pro Phe Ile
 1 5 10 15

Asn Arg Arg

<210> 135
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 <212> PRT
 <213> Homo sapiens
 <400> 135

Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys Phe Arg
 1 5 10

<210> 136
 <211> 15
 <212> PRT
 <213> Homo sapiens
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Gly Phe Tyr Phe Asn Lys Pro Thr Gly Tyr Gly Ser Ser Ser Arg
 1 5 10 15

<210> 137
 <211> 21
 <212> PRT
 <213> Homo sapiens
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Gly Pro Glu Thr Leu Cys Gly Ala Glu Leu Val Asp Ala Leu Gln Phe
 1 5 10 15

4-33624A (5032-W001).ST25.txt

Val Cys Gly Asp Arg
20

<210> 138
<211> 12
<212> PRT
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<400> 138

Leu Glu Met Tyr Cys Ala Pro Leu Lys Pro Ala Lys
1 5 10

<210> 139
<211> 14
<212> PRT
<213> Homo sapiens

<400> 139

Arg Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys Phe Arg
1 5 10

<210> 140
<211> 13
<212> PRT
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<400> 140

Arg Leu Glu Met Tyr Cys Ala Pro Leu Lys Pro Ala Lys
1 5 10

<210> 141
<211> 22
<212> PRT
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<400> 141

Ala Gln Glu Pro Val Lys Gly Pro Val Ser Thr Lys Pro Gly Ser Cys
1 5 10 15

Pro Ile Ile Leu Ile Arg
20

<210> 142
<211> 9
<212> PRT
<213> Homo sapiens

<400> 142

Cys Ala Met Leu Asn Pro Pro Asn Arg
1 5

<210> 143
<211> 11
<212> PRT
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4-33624A (5032-W001).ST25.txt

<400> 143

Cys Leu Lys Asp Thr Asp Cys Pro Gly Ile Lys
1 5 10

<210> 144

<211> 16

<212> PRT

<213> Homo sapiens

<400> 144

Gly Pro Val Ser Thr Lys Pro Gly Ser Cys Pro Ile Ile Leu Ile Arg
1 5 10 15

<210> 145

<211> 10

<212> PRT

<213> Homo sapiens

<400> 145

Val Pro Phe Asn Gly Gln Asp Pro Val Lys
1 5 10

<210> 146

<211> 16

<212> PRT

<213> Homo sapiens

<400> 146

Val Pro Phe Asn Gly Gln Asp Pro Val Lys Gly Gln Val Ser Val Lys
1 5 10 15